0CT 0 5 2000

Sheet 1 of 3 TRADEM **FORM PTO-1449** Atty Docket: BVL-105 Serial No.: 09/233,443 Applicant: van Lengerich INFORMATION DISCLOSURE CITATION Filing Date: January 20, 1999 Group: 1761 (modified) U.S. PATENT DOCUMENTS Examiner Document Filing Date Name Class Sub-Initial Number Class Date: 4,106,991 Markussen et al. August 1978 4,242,219 December 1980 Bogerman et al. 4,689,235 August 1987 Barnes et al. 5,087,461 February 1992 Levine et al. 5,183,690 February 1993 Carr et al. 5,514,387 May 1996 Zimmerman et al. 5,820,903 October 1998 Fleury et al. FOREIGN PATENT DOCUMENTS Examiner Translation **Document** Sub-Initial Number Yes No **Date** Country Class Class 15,312 March 23, 1911 **Great Britain** WO 92/00140 Jan. 9, 1992 **WIPO** 1 8 4000 WO 92/12645 Aug. 6, 1992 **WIPO** WO 94/23593 Oct. 27, 1994 **WIPO** TECH CENTER (600/290 D WO 95/00121 Jan. 5, 1995 **WIPO** OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Per Artusson et al., "Characterization of Polyacryl Starch Microparticles as Carriers for Proteins RZ and Drugs," Journal of Pharmaceutical Science, Vol. 73, No. 11, pps. 1507-1513 (Nov. 1984) Lennart Randen et al., "Coprecipitation of Enzymes with Water Soluble Starch -- An Alternative to Freeze-drying," J. Pharm. Pharmacol., Vol. 40, pps. 763-766 (1988) Shigeaki Maruo et al., "Effects of Moranoline, 4-O-α-D-Glucopyranosylmoranoline and Their N-Substituted Derivatives on Thermostability of Cyclodextrin Glycosyltransferase, Glucoamylase.

Examiner:	4	Date Considered:	6/01
EXAMINER:	Initial if reference considered, whether or not of through citation if not in conformance and not	citation is in conforman	ce with MPEP 609; Draw line

communication to Applicant.

and β-Amylase," Biosci. Biotech. Biochem., Vol. 57, No. 8, pps. 1294-1298, (1993)

anhydrobiosis," Biochimica et Biophysica Acta, Vol. 1425, pps. 245-254 (1998)

Wendell Q. Sun et al., "Protein stability in the amorphous carbohydrate matrix: relevance to

15

101	PE
	'ci
S OCT O	5 2000 💃
TA.	a SEE

RECEIVED

To annual of the last of the l			RECLI # 2000 Sheet 2 of					
TADEMA	M PTO-1449	Atty Docket: BVL	-105 -105	P 97000	9/233,443			
	ION DISCLOSURE	Applicant: van L	Applicant: van Lengerich					
	NTATION modified)	Filing Date: Janu	Filing Date: January 20, 1999					
		U.S. PATE	NT DOCUMENTS				Village of the same	
Examiner Initial	Document Number	Date	Name	Class	Sub- Class	Fili Da	ro te	
	5,952,033	September 1999	Anantharaman et al.					
	5,972,404	October 1999	van Lengerich	1				
	5,972,415	October 1999	Brassart et al.					
	6,004,594	December 1999	van Lengerich		RE	CEI	/ED	
	5,079,012	January 1992	Lengerich et al.					
	3,962,416	June 1976	Katzen		00	182	000	
	3,786,123	January 1974	Katzen		- Pecus	ENTER 16	nn/9 9 0/	
	5,466,460	November 1995	McMahon et al.		IEOn	LIVIENTO		
	4,999,208	March 1991	Lengerich et al.		1			
07	5,071,668	December 1991	van Lengerich et al.					
		FOREIGN	PATENT DOCUMENTS		<u> </u>			
Examiner Initial	Document Number	Date	Country	Class	Sub- Class	Transl Yes	ation No	
71	WO 95/18544	July 13, 1995	WIPO					
1	WO 97/16076	May 9, 1997	WIPO	1 1	1			
	WO 97/39116	Oct. 23, 1997	WIPO					
	WO 98/18610	May 7, 1998	WIPO		/			
	WO 98/54980	Dec. 10, 1998	WIPO					
	OTHER DOCUM	IENTS (Including A	Author, Title, Date, Pertine	ent Pages, et	c.)			

Examiner:		Date Considered: 6/0/			
EXAMINER:	Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next				

communication to Applicant.

Colonna et al., "Extrusion Cooking of Starch & Starchy Products," *Extrusion Cooking*, C. Mercier, et al. AACC, St. Paul, MN (1989), pps. 247-319

Meuser et al., "A Systems Analytical Approach To Extrusion," Food Extrusion Science & Technology, ed. J. Kokini, Dekker Publ. (1992), pps. 619-630

. .

...

FORM	1 PTO-1449	Atty Docket: BVL	-105	Serial No.: C	9/233,443			
『NEORMATION DISCLOSURE CITATION (modified)			Applicant: van Lengerich Filing Date: January 20, 1999		Group: 1761			
		U.S. PATEN	T DOCUMENTS		Cr	Va		
Examiner Initial	Document Number	Date	Name	Class	POWE			
07	5,075,058	December 1991	Chan et al.			/>		
1	3,404,984	October 1968	Olsen			90		
	4,888,171	December 1989	Okonogi et al.		/			
	3,027,102	March 1962	Lödige et al.			1		
!		FOREIGN PA	ATENT DOCUMENTS			l		
Examiner Initial	Document Number	Date	Country	Class	Sub- Class	Translation Yes No		
\sim	EP 0 465 364 A1	Jan. 8, 1992	EPO					
1	EP 0 462 012 A2	Dec. 18, 1991	EPO	ì				
	WO 92/00130	Jan. 9, 1992	WIPO					
	WO 95/26752	Oct. 12, 1995	WIPO		1			
9	WO 85/04074	Sept. 26, 1985	WIPO					
/								
	OTHER DOCUM	ENTS (Including A	uthor, Title, Date, Perti	nent Pages, etc	s.)			
				-				
			· · · · · · · · · · · · · · · · · · ·					
		<u> </u>	<u>-</u>	. *				

Examiner:	4	Date Considered: 6 / 0)
EXAMINER:		t citation is in conformance with MPEP 609; Draw line of considered. Include copy of this form with next

Form PTO-	1449 ^{MAR}	2	6	2001	0
(Rev. 8-83)					A

U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No. BVL-105

Serial No. 09/233,443

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: van Lengerich

Filing Date: January 20, 1999 Group Art Unit: 1617

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date appropriate)	(if
3	2,876,160	03/03/59	Schoch et al.		. —		
	3,868,471	02/25/75	Decelles et al.		Ì		
	3,922,354	11/25/75	Galluzzi et al.				
	4,178,392	12/11/79	Gobble et al.)	1		
n	4,532,145	07/30/85	Saleeb et al.	•			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass.	Translation Yes	<u>1</u> No
0	91 03940	04/04/91	wo	,			
	96 09773	04/04/96	wo		1		
)	40 21 678	01/09/92	DE		,		X
Λ	96 14058	05/17/96	wo				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Date Considered

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Dray line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

•	OIRE					Sheet <u>1</u> of	1
Form PTO-1 (Rev. 8-83)	U.S. Depart Patent and Company (Use several sheets if necessary)	ment of Commerce d Trademark Office	Attorney Docket No. BVL-105 Applicant: van Lengerich		Serial No. 09/233,443		
	(Use several sheets if necessary)	r	Filing Date:	Group Art	Unit: 1617		
		IS DATENT	January 20, 1999 DOCUMENTS				
Examiner	Document Number	Date Date	Name	Class	Subclass	Filing Date	(if
Initial	6,190,591	02/20/01	van Lengerich			appropriate)	
	0,170,371	02/20/01	van Lengerien				
7							
				<u> </u>			
	FOF	REIGN PATE	ENT DOCUMENTS	<u>S</u>	T		
	Document Number	Date	Country	Class	Subclass	Translation Yes	N.
				<u> </u>			_
						<u> </u>	
				 -			
	OTHER DOCUMEN	ITS (Including	Author, Title, Date, P	ertinent Pag	ges, Etc.)	1	·
					,0		
					W.	_	

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 309; Draw line through citation if not in conformance and not considered. Include copy of this form with next an innuite tion to applicant.

Date Considered